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Scientific Method Quiz

Directions: Answer the following questions to the best of your ability.

1. The scientific method is a process for experimentation that is used to explore observations and answer questions. What is one of the first steps in completing the scientific method?

- A. Experiment B. Hypothesis C. Making Observations D. Data

2. What is the second step in completing the scientific method?

- A. Hypothesis B. Problem or Question C. Experiment D. Conclusion

3. Put the steps of the scientific method in order below by placing a 1 next to the first step and 2-6 for the steps in between.

----- hypothesis

----- observations

----- experiment

----- conclusion

----- problem

----- results

4. Which word explains what a hypothesis is?

- A. Results B. Prediction C. Data D. Procedure

5. Which step of the scientific process asks a question that you are trying to find out with your experiment?

- A. Hypothesis B. Problem C. Conclusion D. Observations

6. Write an "O" on the line next to the statement if you think its an observation and write an "I" on the line next to the statement if you think its an inference (guess).

----- The boy has three cavities.

----- The boy did not brush his teeth.

----- The grasshopper uses his long legs to jump.

----- The grasshoppers front legs are shorter than the grasshoppers back legs.

----- The plant did not get enough water.

----- The leaves on the plant are turning brown.

----- The gummy bear got smaller when placed in vinegar.

----- The gummy bear is made with only sugar.

Directions: Use the key below to fill in the missing vocabulary words. Make sure your sentences are using each vocabulary word correctly.

7. In order for scientists to investigate and answer questions about the natural world that surrounds them, they have to follow a series of steps called the _____.
8. When using the scientific method, one of the first steps involves making _____, or gathering information on a topic of interest.
9. The next step is to come up with a _____, or a good question to be answered.
10. The next stage of the scientific process involves forming a _____, or a possible solution to the problem.
11. Another way we can explain a hypothesis is by making an educated _____ or _____.
12. The most important and exciting step of the scientific method is conducting an _____. In this phase, scientists run a series of tests and trials to prove if their hypothesis is correct or incorrect.
13. As scientists work on their experiments, they are constantly making observations and collecting _____.
14. This part is known as the _____. Keeping accurate records help other scientists to understand each experiment.
15. The final step is called the _____. This involves analyzing and summarizing the results. This is where scientists find out if their original hypothesis was correct.

Science Vocabulary Key

data

prediction

conclusion

hypothesis

guess

problem

observations

scientific method

results

experiment